



Math Education Program

Signature Assignment for EDME 504

Math Lesson Study

Student Learning Outcome(s) Assessed:

SLO # 3: Apply research-based instructional strategies in teaching.

Description of the Signature Assignment

Candidates will develop a math lesson study with their grade level peers. The purpose of this lesson study is to plan standards-based mathematics instruction using Common Core State Standards (CCSS) for Mathematics Practice (MP) and identify effective teaching approaches in mathematics instruction from collaborating with their colleagues.

Directions for Students

Lesson Study:

1. Develop a unit lesson plan including five daily lesson plans using appropriate CCSS for Mathematics Practice (Group work).
2. Videotape one individual lesson and analyze application of Common Core State Standards for Mathematics Practice and identify effective teaching strategies (Individual work)
3. Analyze your peer's video lesson and identify effective teaching strategies (Individual work)
4. Share your lesson study at your school math department meeting (Individual work)
5. Reflect on your learning from the lesson study (Individual work)

Scoring Rubric:

Criteria	4 = Exceeds expectations	3 = Meets expectations	2 = Meets some expectations	1 = Does not meet expectations	0 = Unable to score; incomplete or missing work	Final Score
Unit Lessons	Thoroughly states appropriate objectives and CCSS standards and addresses class and student readiness information; thoroughly describes instructional materials and special setup and includes all components of the lesson plan	Completely states appropriate objectives and CCSS standards and addresses class and student readiness information; completely describes instructional materials and special setup and includes all components of the lesson plan	Adequately states objectives and CCSS standards and addresses class and student readiness information; clearly describes some instructional materials and special setup and includes some components of the lesson plan	Insufficiently states objectives and CCSS standards and addresses class and student readiness information; not clearly describes instructional materials and special setup and not clearly addresses all components of the lesson plan	Incomplete or missing components in the lesson	
Analysis of Video Lesson	Thoroughly analyzes strengths and weaknesses of your video lesson; thoroughly analyzes application of CCSS-MP and identifies effective teaching strategies in your video lesson	Analyzes strengths and weaknesses of your video lesson completely; analyzes application of CCSS-MP and identifies effective teaching strategies in your video lesson completely	Adequately analyzes strengths and weaknesses of your video lesson; adequately analyzes application of CCSS-MP and identifies effective teaching strategies in your video lesson	Insufficiently analyzes strengths and weaknesses of your video lesson; not clearly analyzes application of CCSS-MP and identifies effective teaching strategies in your video lesson	Analysis of your video lesson is incomplete/missing	
Analysis of Peer's Video Lesson	Thoroughly analyzes strengths and weaknesses of your peer's video lesson and identifies effective teaching strategies; provides constructive feedback and suggestions thoroughly	Completely analyzes strengths and weaknesses of your peer's video lesson and identifies effective teaching strategies; provides complete feedback and suggestions	Adequately analyzes strengths and weaknesses of your peer's video lesson and identifies effective teaching strategies; provides adequate feedback and suggestions	Insufficiently analyzes strengths and weaknesses of your peer's video lesson and identifies effective teaching strategies; provides insufficiently feedback and suggestions	Analysis of your peer's video lesson is incomplete/missing	

Criteria	4 = Exceeds expectations	3 = Meets expectations	2 = Meets some expectations	1 = Does not meet expectations	0 = Unable to score; incomplete or missing work	Final Score
Reflect on your Learning	Thoroughly reflects on your learning from developing the unit lessons and from analysis of your own video lesson and your peer's lesson; thoroughly describes what you have learned and possible implementation for the future teaching	Completely reflects on your learning from developing the unit lessons and from analysis of your own video lesson and your peer's lesson; completely describes what you have learned and possible implementation for the future teaching	Adequately reflects on your learning from developing the unit lessons and from analysis of your own video lesson and your peer's lesson; adequately describes what you have learned and possible implementation for the future teaching	Insufficiently reflects on your learning from developing the unit lessons and from analysis of your own video lesson and your peer's lesson; insufficiently describes what you have learned and possible implementation for the future teaching	Reflect on your learning from the lesson study is incomplete/missing	
Total						

Evaluation of EDME 504 Signature Assignment

Candidate Name _____

Criteria	Score				
Unit lesson development	0	1	2	3	4
Analysis of your video lesson	0	1	2	3	4
Analysis of your peer's video lesson	0	1	2	3	4
Reflect on your learning from the lesson study	0	1	2	3	4

Legend

Total Points	College of Education Assessment Scale Equivalent
14-16	4 (Exceeds Expectations)
12-13	3 (Meets Expectations)
9-11	2 (Meets Some Expectations)
5-8	1 (Does Not Meet Expectations)
0-4	0 (Can't Score)